IEEE P802.11
Wireless LANs

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| LB 203 Comment Resolution for certain elements |
| Date: 2014-08-01 |
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Abstract

This submission proposes resolutions for comments in 8.4.2.170t, y, and p of TGah Draft 2.0 with the following CIDs (5 CIDs):

* 3025, 3731, 3935
* 3277
* 3282

Revisions:

* Rev 0: Initial version of the document

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGah Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGah Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGah Editor: Editing instructions preceded by “TGah Editor” are instructions to the TGah editor to modify existing material in the TGah draft. As a result of adopting the changes, the TGah editor will execute the instructions rather than copy them to the TGah Draft.***

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| **CID** | **Commenter** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 3025 | Adrian Stephens | 157.45 | 8.4.2.170p | "Bits 3-7 of the Relay Activation element are reserved." - this is redundant | Delete cited text | Accepted |
| 3731 | Liwen Chu | 158.1 | 8.4.2.170p | This is unnecessarily complex. What you can do is either AP or STA can request for activating/deactivating the relay and the destination can reject the request for activation of the relay but can't reject the request for deactivation of the relay. | As proposed | Rejected –The comment fails to identify a technical issue. The table contains a simple way to enable/ disable the relay operation from AP and non-AP STA by setting the Relay Activation mode to either 0 or 1. |
| 3732 | Liwen Chu | 159.62 | 8.4.2.170p | I can't find "Relay Station Indication field". Where is it? | Clarify it. | **<Transferred to Kaiying as it related to Relay Discovery element>** |
| 3935 | Mitsuru Iwaoka | 157.39 | 8.4.2.170p | While STA may be AP, it is better to explicitly specify as non-AP STA. | Replace "STA" by "non-AP STA" in the subclause 8.4.2.170p (9 occurrence, one at P157L39 and 8 in Table 8-240j). | Revised –Agree with the commenter. Proposed resolution follows the suggestion. TGah editor to make the changes shown in 11-14/1064r0 under all headings that include CID 3277. |

**Discussion:** *None.*

* Relay Activation element

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
|  | ElementID | Length | Relay Function |
| Octets: | 1 | 1 | 1 |
| * Relay Activation element format
 |

The format of the Relay Function field is shown in Figure 8-575a39 (Relay Function field format(#3270)).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | B0 | B1 | B2 | B3             B7 |
|  | Relay Activation Mode | Direction | Enable Relay Function | Reserved |
| Bits: | 1 | 1 | 1 | 5 |
| * Relay Function field format(#3270)
 |

The Relay Activation Mode subfield is set to 1 to indicate that this element is a Relay Activation Request. The Relay Activation Mode subfield is set to 0 to indicate the Relay Activation Response.

***TGah Editor: Change the paragraph below as follows (#3935):***

The Direction subfield is set to 1 if the Relay Activation element is sent by the AP. The Direction subfield is set to 0 if the Relay Activation is sent by the non-AP STA.

The Enable Relay Function subfield is set to a value based on the Direction and Relay Activation Mode subfield as described in Table 8-258a9 (Enable Relay Function subfield values).

***TGah Editor: Change the table below as follows (#3935):***

|  |
| --- |
| * Enable Relay Function subfield values
 |
|  | **Relay Activation Mode=1 (Request)** | **Relay Activation Mode=0 (Response)** |
| **Direction=1 (from AP)** | If the Enable Relay Function subfield is set to 1, it indicates that the non-AP STA can operate as a relay(#3434) and if it is set to 0 it indicates AP demands the non-AP STA to terminate the relay(#3434) function. | If the Enable Relay Function subfield is set to 1, it indicates that the non-AP STA is allowed to operate as a relay(#3434) and if it is set to 0, it indicates that the non-AP STA cannot operate as a relay(#3434). |
| **Direction=0 (from non-AP STA)**(#3936, 3621, 3271) | If the Enable Relay Function subfield is set to 1, it indicates that the non-AP STA requests to activate its relay(#3434) function and if it is set to 0, it indicates that the non-AP STA requests to terminate its relay(#3434) function. | If the Enable Relay Function subfield is set to 1, it indicates that the non-AP STA activates its relay(#3434) function and if it is set to 0, it indicates that the non-AP STA terminates its relay(#3434) function. |

Bits 3-7 of the Relay Activation element are reserved.

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| **CID** | **Commenter** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 3277 | Alfred Asterjadhi | 168.10 | 8.4.2.170t | Do we need 4 octets to indicate these values? Also 1 microsecond of resolution seems excessive | Probably 2 octets is enough. Eventually increase the unit to increase the range. For example 40 us or 160 us could be used for this case as well. | Revised –Agree in principle with the commenter. Proposed resolution follows the suggestion. With 2 octets and a time unit of 40us it is possible to cover up to ~2.62 seconds which is more than enough for this type of operation. TGah editor to make the changes shown in 11-14/1064r0 under all headings that include CID 3277. |

**Discussion:** *None.*

* Activity Specification element

***TGah Editor: Change the subclause below as follows (#3277):***

The Activity Specification element is used by a STA to inform the associated AP or peer TDLS STA about operating limitations of the STA, in terms of the maximum continuous time the STA is capable of being in the Awake state, and the minimum continuous time the STA stays in Doze state in between Awake periods.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Element ID | Length | Max Awake Interval | Recovery Time |
| Octets: | 1 | 1 | 2 | 2 |
| * Activity Specification element format
 |

The Element ID and Length fields are defined in 8.4.2.1 (General).

The Max Awake Interval field indicates a time in units of 40 microseconds, used as defined in 10.44e (Support for energy limited STAs); a value 0 indicates that no limit applies.

The Recovery time indicates a time in units of 40 microseconds, used as defined in 10.44e (Support for energy limited STAs).

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| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 3282 | Alfred Asterjadhi | 173.36 | 8.4.2.170y | "Max Away Duration field has a unit of microsecond." which means that the AP can go to sleep only for up to ~65ms. Is this enough considering that according to the description in 10.2.2.20 the AP can potentially sleep for a whole beacon interval? | Check if the unit can be larger to cover a wider range e.g., using a unit of TU. | Revised –Agree with the commenter. Proposed resolution changes the unit to TU (the same unit of beacon interval)TGah editor to make the changes shown in 11-14/1064r0 under all headings that include CID 3282. |

**Discussion:** *None.*

* MAD element

The Max Away Duration element is shown in Figure 8-575a55 (Max Away Duration element).

|  |  |  |  |
| --- | --- | --- | --- |
|  | Element ID | Length | Max Away Duration |
| Octets: | 1 | 1 | 2 |
| * Max Away Duration element
 |

The Element ID and Length fields are defined in 8.4.2.1 (General).

***TGah Editor: Change the subclause below as follows (#3282):***

The Max Away Duration field indicates the maximum duration that the AP may be out of reach for the STA (operating in other channels, sleeping or operating in other RAWs). The value of the Max Away Duration field is expressed in units of TU.(#3477)